

A. POLLOCK.
Hot-Air Register.

No. 137.

Patented March 3, 1837.

Fig. 1

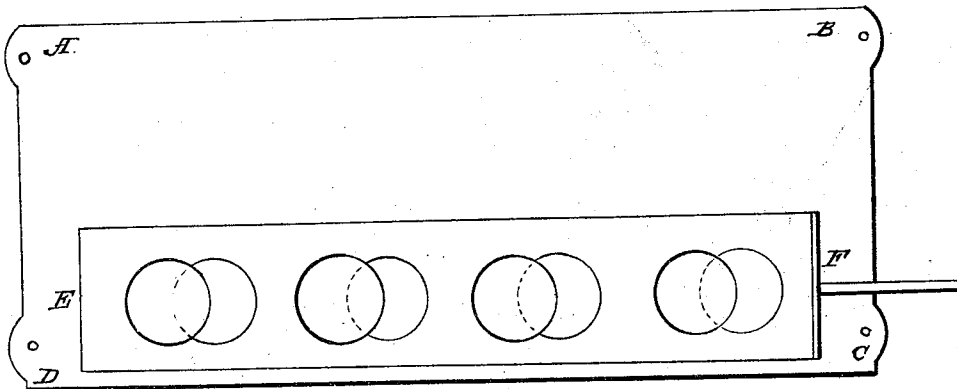
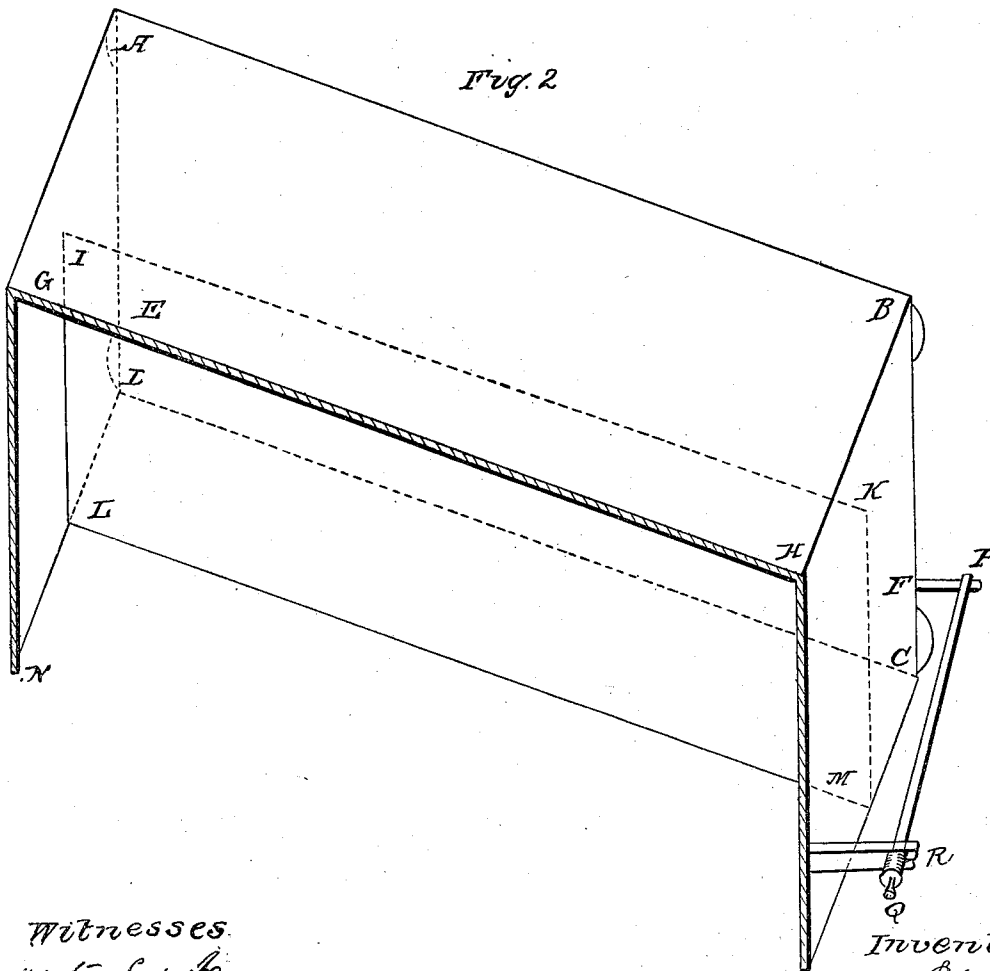


Fig. 2



Witnesses
Winston Lewis Jr.
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Inventor
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UNITED STATES PATENT OFFICE.

ALLAN POLLOCK, OF BOSTON, MASSACHUSETTS.

REGISTER AND AIR-BOX FOR GRATES AND FIREPLACES.

Specification of Letters Patent No. 137, dated March 3, 1837.

To all whom it may concern:

Be it known that I, ALLAN POLLOCK, of the city of Boston, in the county of Suffolk and State of Massachusetts, have invented a Register and Air-Box for the Purpose of Admitting External Air to Grates and other Fireplaces for Consuming Fuel; and I do hereby declare that the following is a full and exact description.

Figure 1, A B C D, shows the back part of the box removed from its place, with the sliding register E F which opens or shuts the four circular apertures by which the air is admitted into the box; the apertures are represented as about half shut by the register.

Fig. 2, A B C D, shows Fig. 1 in its place at the back of the box, where E F also denotes the place of the register; I K L M is a partition rising from the bottom of the box to within two inches of the top; A B G H shows the top of the box; H B O C shows one end of the box together with the lever P Q movable on the center R, by means of which the Register is regulated so as to admit more or less air into the box; when in use the open part of the box N G H O is brought into contact with the external surface of the back of the grate, the joinings being secured with mason work or other ways, the bottom part of the box being placed two inches below the level of the bottom of the grate; (the front part of the ash pit being joined by soap stone or other ways to the front of the grate,) the air after passing through the holes of the register will proceed over the top of the middle partition, and downward between the middle partition and the back of the grate into the ash pit, and through the bars at the bot-

tom of the grate into the fuel to be consumed. I usually make them with three or four circular apertures of two inches diameter according to the size of the grates or rooms to which they are applied, but apertures of oval, square, pentagon, or any other shape may be used, provided the spaces between them are so placed that by moving the register the holes may be opened or shut. Cast iron is the best material for making the boxes, but they may be made of various others such as soap stone, brick-work, &c. The end of the lever for moving the register may be brought out at the front, or side of the fire place, as the situation requires. It is evident from the drawings and mode that the bottom of the box does not extend beyond the middle division, the remaining space being left open for the communication with the ash pit. The air to be admitted may be taken from without the building, or from a cellar, or entry as most convenient. The drawings are nearly half the size of the box.

What I claim as my invention and desire to secure by Letters Patent, is—

The register with two or more apertures, the spaces and apertures being so placed that by moving the register the corresponding apertures in the back of the box may be opened or shut simultaneously, also the air box with the middle partition intended to change the direction of the current of air so as to prevent the dust and ashes from blowing into the room.

ALLAN POLLOCK.

Witnesses:

WINSLOW LEWIS, Jr.,
SARAH B. POLLOCK.